Attorney Docket Number 20030253.ORI 6

1	1. A method of diffusion weiging of different metals in air comprising:
2	mechanically processing of the welded surfaces such as polishing to smooth the
3	surfaces to be welded,
4	applying a hydrocarbon coating to the surfaces to be welded,
5	pressing the surfaces to be welded together while heating the pieces to be welded,
6	heating the pieces to be welded by induction heating to about 80 percent to 90
7	percent of the melting point of the lower temperature melting point piece to be welded,
8	providing additional heating pulses to the butt areas of the pieces after the
9	welding temperature has been achieved, in order to improve the quality of the weld by
10	homogenizing the temperature distribution over the butt area.
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1	2. A method of diffusion welding of different metals in air as in claim 1 further
2	comprising:
3	annealing the welded metals.
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